

The Artificial Meat Factory – Synthetic Supper “In terms of commercial sales, I would say in four to five years,” says Post. “It will still be a somewhat expensive burger, around the \$10 mark. Another few years of commercial production and the price will start to fall further.”
[sciencefocus.com : tinyurl.com/yxdatroz](http://sciencefocus.com/tinyurl.com/yxdatroz)

Dec 5th 2016 : **Bone Transplants Grown in the Lab** : 3D high density bone graft from the patient's own fat cells are grown in a lab (in vitro). Biopharmed bone is ready for transplant in 2 weeks. 2 months till bone fragments regenerate in vivo.
[vosizneias.com tinyurl.com/rvutpog](http://vosizneias.com/tinyurl.com/rvutpog)



Sep 11, 2018 : **'New Bladder made from my cells gave me life back'** : An enterprising surgeon, Anthony Atala at Boston Children's Hospital, took a small piece of Luke's bladder, and over two months grew a new one in the lab. In a 14-hour surgical procedure he replaced the defective bladder with the new one.
bbc.com/news/business-45470799

Mar 28, 2017 : **Stem Cells to Create Endless Blood Supply** : “We kept cells continually dividing for a year, we were quite excited”. Mass produce blood requires antibacterials, grow medium, and solid state gear.
[cnn.com : tinyurl.com/tbb3h96](http://cnn.com/tinyurl.com/tbb3h96) nature.com/articles/ncomms14750



Image Left : fofg.org : (tinyurl.com/sh2qjbf) Falun Dafa (Falun Gong) are moral practitioners centered on truthfulness, compassion, and forbearance. Pronounced Fallen, or Phallon. **Image Right** : Hong Kong Protests, began Friday, March 15, 2019.

Feb. 21, 2018 : **Google Retinal Scans Diagnose Heart Disease** : Google researchers said this approach was 70 percent accurate in identifying patients who would suffer a heart attack or other major cardiovascular problem within five years and those who would not, *USA Today* reported. Similar to cholesterol level [blood](http://tinyurl.com/rdmwcock) tests.
webmd.com : tinyurl.com/rdmwcock

18 April 2006 : **World's Second Face Transplant Performed in China** : It might look gruesome to you but these people are getting a second chance. But where will they find the face? Canada has proceeded to transplant face also.
[newscientist.com : tinyurl.com/r54g2bd](http://newscientist.com/tinyurl.com/r54g2bd)

5 Dec 2017: **Grow Your Own: the race to create body parts in the lab** : From replacement skin to entire new organs, regenerative medicine. A surgeon is working on creating oesophagus for babies.
[theguardian.com : tinyurl.com/y74wxqzg](http://theguardian.com/tinyurl.com/y74wxqzg)

FEB 27, 2007 : **Stems Cells from Fat, Grow Real Boobs for Implants** : The technique was first used in 2004 and since then 38 women have been treated without any major side effects. The long-term effectiveness has yet to be demonstrated, however, and scientists say that further testing is required.
digitaljournal.com/article/128053

Married At First Sight's Jessika Power is 'very happy' with Boob Job

She spoke candidly about her surgery - which cost around \$13,000 and involved moving fat from her legs to her chest. Early Silicone implants are banned in Canada due to medical dangers. Jessika decided on a fat transfer as it would fix her thighs problem areas while also boosting her chest size. Self esteem aside, this is about proper medical practices. Wow! Liposuction and safer, natural, fuller, bigger breasts!
dailyemail.co.uk : tinyurl.com/tr5d7bz



Nov 7, 2019 : **Surgical Objects Left in Patients on the Rise in Canada, Data Shows** 550 objects have been unintentionally left in Canadian medical and surgery patients between 2016 and 2018. A 14% increase between recent data collected 2017-2018. More than 2x the average rate, including Sweden, the Netherlands and Norway.
[ctvnews.ca : tinyurl.com/rasoew7](http://ctvnews.ca/tinyurl.com/rasoew7)

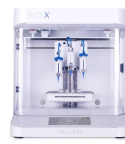


Data Mining Hidden Data Patterns

St Joseph's Healthcare, Hamilton, Ontario, the first knee surgery robot. Mako (Left) enables a more predictable surgical experience, lowering tremors.
thespec.com : tinyurl.com/t2kcnf9

Liberian Leper Colony a Lifetime Commitment to Care John Flomo, 66, has lived at the Ganta Leprosy and TB Rehab Center since he was 15 years old. The center is part of the United Methodist Ganta Mission Station in Ganta, Liberia.
umnews.org : tinyurl.com/wt6thtx

Dec 2018 : **Tissue matching** : Transplantation is somewhat risky and donor organs are scarce, potential recipients are screened for factors that may affect success. The immune system normally attacks foreign tissue.
merckmanuals.com : tinyurl.com/t7x5gwI



BIO X is the go-to 3D bioprinter for life-science companies, researchers and innovators. New Ears, Nose, or Patella? This 3D printer can create bones and soft tissue. In just a short time Cellink has won several awards. BIO X bioprinter creates a positive pressure inside the chamber. The HEPA H14 dual-filter top retains more than 99.995% of unwanted particles and microorganisms.
cellink.com/bioprinting

3D Bioprinting Regulations: a UK/EU Perspective Materials that are biocompatible and therefore not rejected by an organism, populated with a patient's cells, which also helps to prevent rejection. Biomaterials act as a receptacle for cells. Once the organ has been implanted, the cells reproduce until they fill all the required area.
ub.edu : tinyurl.com/uhb8f5o

Jun 18 2019 : **China forcefully harvests organs from detainees, tribunal concludes** China's organ transplant trade is worth \$1 billion a year, according to a tribunal. This story contains details some may find distressing.
nbcnews.com : tinyurl.com/y67zvq5c

Feb 15 2020 : **Parents of Concord teen killed in hit-and-run are honoring their son** From John Muir Medical Center on Friday night, Leslie and Joe Barratt II told KTVU that their son, who was named Joe after his father and grandfather, was an organ donor and his organs will now carry on through others.
ctvnews.ca : tinyurl.com/woowlvp9

Aug. 9, 2019 : **Drug Shortage Leaves Patients Without Immune-Disorder Treatment** A shortage of immune globulin has forced hospitals to ration treatments. ‘For the patients affected, it's been very significant’
wsj.com : tinyurl.com/yffplvld

May 28, 2019 : **Should Canada Presume Consent for Organ Donations?** Here are the pros and cons : Children under age 19 will be exempt.
globalnews.ca : tinyurl.com/y22umocl



Feb 14, 2020 : **Secret Montreal Cave You Can Visit And Explore With Your Friends** Right in the middle of the city. At the center of Park Pie IX in St-Leonard lies the entrance to the Cavernicicle Cave, a historic site that was first discovered in 1812.
mtlblog.com : tinyurl.com/reqh4ly

April 21, 2010 : **Serial Killer Rodney Alcalá's Photos Released** : Can You ID Any Of These Women? The photos taken by serial killer Rodney Alcalá of more than 100 women and children, call 800- 577- TIPS.
nbcnewyork.com : tinyurl.com/vaz7uqk

06/03/2014 : **Get Everyone To Put Away Their Damn Phones** : Let people know an event is “unplugged” before they arrive. Perhaps the worst thing you can do is to catch your guests by surprise. Let people know that your party is device-free before they show up, so they can plan accordingly.
huffingtonpost.ca : tinyurl.com/syzojs0

2019-10-15 : **3D-printed concrete bridge unveiled in north China (Xinhua)** A 3D-printed concrete bridge modeled on a 1,400-year-old stone arch bridge has been unveiled in northern China's Tianjin Municipality.
xinhuanet.com : tinyurl.com/qun34yn



MARCH 29, 2015 : **Winning Design for Victims of Communism Memorial Features 100 million 'memory squares'** Thursday's announcement, Kapusta referenced Josef Stalin's infamous statement that “one death is a tragedy; one million is a statistic.”
globalnews.ca : tinyurl.com/wfoxbuu

Construction is expected to cost \$3 million, with the federal government committing \$1.5 million plus \$500,000 for the design process. Tribute to Liberty will contribute the other \$1.5 million.
ottawacitizen.com/news/local-news/timeline-memorial-to-the-victims-of-communism

2018-10-19 : **Seismologist “Earthquake Swarm” in McAdam, New Brunswick**
earthquakescanada.nrcan.gc.ca : tinyurl.com/r638t32

Starting January 1, 2016, all Chinese Couples are Allowed to have two Children The young were abandoned in the streets after a 1980s enforcement rule to curtail overpopulation estimates restricted families to one.
brookings.edu : tinyurl.com/rz5vdo0

3D-printed concrete bridge unveiled in north China : Oct. 15 (Xinhua) -- A 3D-printed concrete bridge modeled on a 1,400-year-old stone arch bridge has been unveiled in northern China's Tianjin Municipality.
xinhuanet.com : tinyurl.com/qun34yn



Organism Experiments in Revival Budget : 1940's Russian scientists kept a dog's head alive for a few hours. That poor thing looks like it's in so much pain. This is amazing. Cruel, yes, but amazing. The fact they actually did this and it works, means one day a human head could be transplanted on another body. Film cost £20,000 around the 1940's.

youtube.com/watch?v=KhZEMJHQ1Zl

seekingalpha.com : tinyurl.com/yx4e24yk

January 31, 2016 : **Lab-grown testicles give new hope to wounded Vets** : Wake Forest team successfully grow vaginas from patients' cells into women born with birth defects and engineered functional ovaries in the laboratory.
militarytimes.com : tinyurl.com/urd8q5y

May 8, 2019 : **Canadian Face Transplant Success** On a 37-year-old man's gunshot wound to the face. The operation, which lasted 30 hours, required multiple specialists, and exceptional collaboration including doctors, more than one hundred professionals, nurses, and many other personnel.
hospitalnews.com/first-canadian-face-transplant-a-success/



Dec 18, 2012 : **New Imaging System Could Make America's Stealth Technology Obsolete** Their system isn't yet perfect and can theoretically be compromised. In the meantime they have a new quantum imaging system that can “be added relatively quickly and cheaply to existing systems.”
businessinsider.com : tinyurl.com/c6dp28h

Why Mercury is Dangerous : Cleansers I will discuss today are simple and aromatic seeds (cumin, anise, fennel, fenugreek, caraway), which have been used for healing for thousands of years by the ancient Egyptians, Chinese, Indians, Greeks, and Arabs.
arabnews.com/news/487086

Cat's 'Sixth Sense': Predicting Death? Herodotus : In whatever houses a cat has died by a natural death, all those who dwell in this house shave their eyebrows only, but those in which a dog has died shave their whole body and also their head.
gutenberg.org : tinyurl.com/tza84f4

June 23, 2017 : **Death Toll from On-Reserve Fires Rises to 175** Another person has died in a house fire on a First Nations reserve, this time on the Pikwakanagan First Nation, about 90 kilometres west of Arnprior, Ont. “I can tell you at least 10 or 12 (Indigenous) people are going to die this year in Ontario alone,” said Six Nations.
thestar.com : tinyurl.com/vk747ct

06/12/2012 : **The Wonders of Unicorn Horns: Preventions and Cures for Poisoning** The first three ingredients required to make the “Banister's Powder” are: powdered Unicorn horn, east bezosars, and the “bones” of a stag's heart.
recipes.hypotheses.org/511

Fort Anne National Historic Site During the 17th and 18th centuries, the Annapolis River (formerly the Dauphin River) in southwestern Nova Scotia became a centre of the European colonization of North America.
pc.gc.ca : tinyurl.com/rdazd5o

Feb 11, 2020 : **Hydrogen Fuel-Cell Truck: Nikola Badger Joins Electric Pickup Battle** Work quickly and get things done. Value simplicity and cut red tape. Take risks and learn from mistakes.
gearjunkie.com : tinyurl.com/re3gim9

Sep 10, 2012 : **Waking Up: Famous Coma Survivors** : Not everyone who is in a coma will come out of it, but stories such as his and others provide hope for families caring for a comatose relative.
everydayhealth.com : tinyurl.com/y9b6y7ab

15 November 2019 : **Pickpocketing on the Paris Metro up 74 Percent in the Last Year** It's so bad, union workers shut down transit systems. Barcelona, Prague, Rome, Madrid, Paris, Buenos Aires, Florence, Amsterdam, Hanoi, Athens
tinyurl.com/r9cbf3y : escapehere.com

Bayes' Theorem : is used to update the probability for a hypothesis as more evidence or information becomes available. Bayesian inference is an important technique in statistics, and especially in mathematical statistics.
en.wikipedia.org/wiki/Bayesian_inference